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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,936	11/08/2001	Patrick M. Flaherty	GWW/05P2	4801
26875 75	590 03/02/2004		EXAMINER	
WOOD, HERRON & EVANS, LLP			NGUYEN, PHONG H	
2700 CAREW TOWER 441 VINE STREET			ART UNIT	PAPER NUMBER
CINCINNATI, OH 45202			3724	

DATE MAILED: 03/02/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	10/008,936	FLAHERTY ET AL.
Office Action Summary	Examiner	Art Unit
	Phong H Nguyen	3724
Th MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from t, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>08 D</u> This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) 27-29 is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-26 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat onty documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	y (PTO-413)
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D	

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DETAILED ACTION

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

2. Claims 1, 2, 5, and 15-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson et al. (4,627,214).

Regarding claims 1, 14, 15, and 21-26, Anderson et al. teach a slitting machine comprising a frame having an upper frame and a lower frame, an upper and lower drive shafts 35, a drive motor 47, a plurality of knife holder assemblies 30 and 31, a plurality of rotary knives, a knife holder position adjustment system 51 and 24, a frame adjustment mechanism 41 for vertical adjustment of the upper and the lower frame, and a programmable controller for positioning the knife holder assemblies along the respective drive shafts. See Figs. 1, 2, 5, and col. 4, lines 53-69.

Regarding claim 2, an upper frame and a lower frame are best seen in Fig. 1.

Regarding claim 5, the knife holder assemblies are adjustable independently. See Fig. 1.

Regarding claims 16-20, the frame adjustment mechanism for vertical adjustment of the upper and the lower frame is best seen in Figs. 3, 4, and 9; and col. 6, lines 15-58.

3. Claims 3, 4, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (4,627,214) in view of Brando (5,88,268).

Anderson et al. teach a slitting machine comprising a frame having an upper frame and a lower frame, an upper and lower drive shafts 35, a drive motor 47, a plurality of knife holder assemblies 30 and 31, a plurality of rotary knives, a knife holder position adjustment system 51 and 24, a frame adjustment mechanism 41 for vertical adjustment of the upper and the lower frame, and a programmable controller for positioning the knife holder assemblies along the respective drive shafts. See Figs. 1, 2, and col. 4, lines 53-69. Anderson et al., however, teach using racks 24 and pinions 51 for the knife holder position adjustment system but not the threaded shafts. Brando teaches art equivalence of threaded shafts and racks and pinions. See Fig. 1 and col. 3, lines 10-24. Therefore, it would have been obvious to substitute racks and pinions for threaded shafts since they are equivalent as suggested by Brando.

A plurality of motors 50 for knife holder assemblies 30 and 31 are best seen in Fig. 1 in Anderson et al. The ball nuts for use with threaded shafts are best seen in Fig. 3 in Brando.

4. Claims 7-14 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (4,627,214) in view of Chambers (5,637,068). Anderson et al. teach a slitting machine comprising a frame having an upper frame and a lower frame, an upper and lower drive shafts 35, a drive motor 47, a plurality of knife holder assemblies 30 and 31, a plurality of rotary knives, a knife holder position adjustment system 51 and 24, a

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frame adjustment mechanism 41 for vertical adjustment of the upper and the lower frame, and a programmable controller for positioning the knife holder assemblies along the respective drive shafts. See Figs. 1, 2, and col. 4, lines 53-69. Anderson et al., however, does not teach a plurality of drive shaft section each being coupled through a coupling mechanism. Chambers teaches a blade assembly comprising a plurality of drive shaft sections each being coupled through a coupling mechanism so that the blade assembly is readily disassembled for sharpening or other maintenance. See Figs. 11, 12 and col. 6, lines 21-67. Therefore, it would have been obvious to substitute a one segment shaft for as blade assembly as taught by Anderson et al. by a multi-segment shaft for a blade assembly as taught by Chambers so that an operator can disassemble the blade assembly for sharpening or other maintenance quickly.

Response to Arguments

5. Applicant's arguments filed on 12/08/2003 have been fully considered but they are not persuasive.

Regarding arguments with respect to claims 1, 6 and 25, the claims are interpreted that the first knife holder is supported by one pair of the inner or the outer pairs of upper rail supports and the second knife holder is supported by one pair of the inner or the outer pairs of lower rail supports. Either pairs 26 or 27 can be called as an inner pairs of rail supports.

Regarding arguments with respect to claims 7, 13, 14 and 23, Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

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Regarding arguments with respect to claims 15, 21, 22, 24 and 26, the upper

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frame being pivotally coupled to the lower frame to adjust relative vertical positioning of

the first and second knife holder assemblies is best seen Figs. 3, 4, and 9; and col. 6, lines

15-58 in Anderson.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phong H Nguyen whose telephone number is 703-305-

4989. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Allan Shoap can be reached on 703-308-1082. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR. Status

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

PN: (

PW

February 19, 2004

Allan N. Shoap

Supervisory Patent Examiner

Group 3700